

Title (en)  
ULTRA HIGH-PRESSURE SINTERED CUTTER WITH RECESS OR GROOVE, HOLDING MECHANISM FOR THE CUTTER, AND METHOD OF MANUFACTURING THE CUTTER

Title (de)  
GESINTERTE ULTRAHOCHDRUCKSCHNEIDVORRICHTUNG MIT AUSSPARUNG ODER NUT, HALTEMECHANISMUS FÜR DIE SCHNEIDVORRICHTUNG UND VERFAHREN ZUR HERSTELLUNG DER SCHNEIDVORRICHTUNG

Title (fr)  
LAME JETABLE DE TRANCHET FRITTEE SOUS HAUTE PRESSION PRESENTANT UN EVIDEMENT OU UNE RAINURE, SON MECANISME DE FIXATION ET SON PROCEDE DE FABRICATION

Publication  
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Application  
**EP 02755734 A 20020731**

Priority  
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Abstract (en)  
With conventional small troublesome indexable inserts from high-pressure sintered materials having neither a screw-hole nor a cavity for attaching the insert to a toolholder, clamping the insert onto the holder has been complicated and the tightening force has been weak. The cause behind this is that with the hardness of high-pressure sintered material being high, surface machining is extremely difficult. <??>A toolholder attachment cavity is provided in the rake face of an indexable insert composed of a high-pressure sintered material, by machining with a laser whose light output power is adjusted and whose light-harvesting is enhanced using a galvanometer mirror, while high-precision controlling the beaming position. This allows small-scale indexable insert of high-pressure sintered material to be mounted onto a holder simply and securely with a clamp, and makes for curtailed prep time, improved machining precision, and better mounting reliability. <IMAGE>

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